



**Fw: West Lake Landfill - SWMP speaking points**

Cecilia Tapia, DeAndre Singletary, Audrey  
Dan Gravatt to: Asher, Debbie Kring, Ben Washburn,  
Christopher Whitley, Robertw Jackson, Rich

01/02/2013 06:59 AM

FYI, here are the talking points MDNR's Solid Waste Program proposes for our January 17th public meeting. Please review so we can discuss during our preparation meeting tomorrow (January 3, 2013) at 10:30AM.

Sincerely,  
Daniel R. Gravatt, PG  
US EPA Region 7 SUPR / MOKS  
11201 Renner Boulevard, Lenexa, KS 66219  
Phone (913) 551-7324

Principles and integrity are expensive, but they are among the very few things worth having.

----- Forwarded by Dan Gravatt/R7/USEPA/US on 01/02/2013 06:56 AM -----

From: "Muenks, Shawn" <shawn.muenks@dnr.mo.gov>  
To: Dan Gravatt/R7/USEPA/US@EPA  
Cc: "Doster, Branden" <branden.doster@dnr.mo.gov>  
Date: 12/31/2012 12:03 PM  
Subject: West Lake Landfill - SWMP speaking points

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Dan,

Attached are Solid Waste Management Program speaking points for the January 17 public meeting. Please send me a copy of your agenda and presentation as soon as you can.

Thanks,

Shawn Muenks, P.E.  
Missouri Department of Natural Resources  
P.O. Box 176, Jefferson City, MO 65102-0176  
Ph: (573)751-3107



email: [shawn.muenks@dnr.mo.gov](mailto:shawn.muenks@dnr.mo.gov) Bridgeton LF bullet points- (West Lake Public mtg 1-17-2013) 12-31.docx

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## **Bridgeton Sanitary Landfill**

- Bridgeton Landfill, LLC (facility), whose parent company is Republic Services, Inc., a publically traded company, owns the Bridgeton Sanitary Landfill.
- The facility was initially permitted November 18, 1985 and ceased accepting waste December 31, 2004.
- Based on our records, the landfill waste mass encompasses approximately 52 acres with approximately 240 feet below the ground's surface and a total waste thickness of 320 feet. The waste is located in two distinct areas known as the North and South Quarries. The landfill is contiguous to an area of the West Lake Landfill site that requires a remedy.
- On December 23, 2010, the facility reported to the Missouri Department of Natural Resources (DNR) Solid Waste Management Program that they were experiencing elevated temperatures on some gas extraction wells, which could be indicative of a landfill subsurface smoldering event (SSE).
- The DNR tasked the facility owner with researching, designing and implementing actions to isolate the area with elevated temperatures in order to prevent expansion.
- The DNR contracted with two landfill experts that have been working with the DNR, local officials (fire departments and county health department), and the facility to review appropriate actions that are taken to minimize environmental impacts.
- The facility recently completed installation of temperature monitoring probes (TMPs) to evaluate the direction and extent of the SSE. This included placing monitoring probes between the impacted area of the Bridgeton Sanitary Landfill and an area of the West Lake Landfill requiring a remedy. Data from the TMPs is beginning to be collected for evaluation.
- Upgrades of the landfill gas collection system continue and are expected to be completed during the first quarter 2013. This may include installation of additional plastic cover and soil capping material.
- Inspection activities by the facility include:
  - Daily visual inspections of the landfill cap and infrastructure looking for odor sources such as cracks in the clay cap, or holes or cracks in the plastic cover or other parts of the landfill gas or leachate collection systems.
  - Daily visual inspections and monthly surveys to monitor the landfill cap for differential settlement that may be caused by the SSE that can lead to damage of the landfill gas or leachate extraction systems or the landfill cap.

- Weekly landfill gas sampling and temperature monitoring- to monitor the state and location of the SSE
- DNR, Bridgeton Sanitary Landfill, St. Louis County Department of Health and the Pattonville Fire Department continue to meet 1-2 times per month. These meetings allow for review and analysis of site activities and discussion of future actions (e.g., review of any odor concerns received and actions taken by the facility, monitoring of well temperatures and leachate output, use of odor neutralizing/masking agents, daily landfill cap inspections, upgrading of the methane gas collection system, review and supplement of the Health and Safety Plan, Operations and Maintenance Program, Contingency Plan and Summary Report).